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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,672	12/31/2003	Amir Khan	17316 (DN2799)	9728

7590

05/17/2006

GAF MATERIALS CORPORATION

1361 Alps Road  
Wayne, NJ 07470

EXAMINER

CHEVALIER, ALICIA ANN

ART UNIT

PAPER NUMBER

1772

DATE MAILED: 05/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/749,672	Applicant(s) KHAN ET AL.	
	Examiner Alicia Chevalier	Art Unit 1772	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 16 September 2005 and 16 February 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 4,9 and 12 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3,5-8,10,11 and 13-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>8/4/04, 1/10/06</u> . | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. Claims 1-20 are pending in the application, claims 4, 9 and 12 are withdrawn from consideration.

#### ***Election/Restrictions***

2. Applicant's election without traverse of Species A, C and G in the replies filed on September 16, 2005 and February 16, 2006 is acknowledged.

#### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-3, 5-8, 10, 11, 13-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Clemens et al. (U.S. Publication No. 2002/0114940 A1).

Clemens discloses a top coating composition (*page 1, paragraph [0020]*) comprising a mixture of a polymeric binder (*page 2, paragraph [0022] and page 4, paragraphs [0114]-[0118]*), heat expandable graphite particles (*page 2, paragraph [0029] and page 8, paragraph [0187]*), a polymeric carrier (*page 2, paragraph [0029]*) and an effective amount of a pigment (*page 2, paragraph [0024]*) that is deemed to be capable of providing a coating that has an initial energy efficiency rating greater than or equal to 0.65 for a low-sloped roof, or an initial energy

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efficiency greater than or equal to 0.25 for a steep-sloped roof. The mixture has a solids content from about 50-75% of which 1-10 wt. % is the expandable graphite particles (*page 2, paragraphs [0022]-[0029] and page 8, paragraph [0187]*). The mixture may also be cured (*page 8, paragraph [0169]*).

The polymeric binder is a thermoplastic polymer selected from the group consisting of acrylic or methacrylic polymers or copolymers, epoxy resins and polyvinyl acetate and is present in the mixture in an amount from about 5 to about 60 wt. % (*page 2, paragraph [0022] and page 4, paragraphs [0114]-[0118]*). The polymeric carrier is water (*page 2, paragraph [0029]*). The pigment comprises titanium dioxide, calcium carbonate, colemanite, aluminum trihydrate (ATH), borate compounds or mixtures thereof and is present in the mixture in an amount from about 2 to about 20 wt. % (*page 2, paragraph [0024]*). The polymeric carrier and polymeric binder are deemed to form an aqueous polymeric-based emulsion. The mixture further comprises one or more optional components selected from the group consisting of dispersants, defoamers, fillers, solvents, microbiocides, thickening agents, additional fire retardants, pH modifiers, wetting agents, light stabilizers, and adhesion promoters (*page 2, paragraph [0029]*).

Clemens discloses further discloses a roofing product comprising a substrate and a top coat as discussed above. The substrate comprises single ply membranes, built-up roofing (BUR), modified bitumen, ethylene propylene diene monomer rubber (EPDM), standing-seam profile, shingles, clay, concentrate, fiber cement tile, slate, shakes, architectural profiled metal or individual roofing components (*page 3, paragraph [0060] through page 4, paragraph [0094]*). The substrate surface is deemed to have a slope of 2:12 inches or *less*, since figure 1 show the substrate to have no slope, i.e. 0.

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***Conclusion***

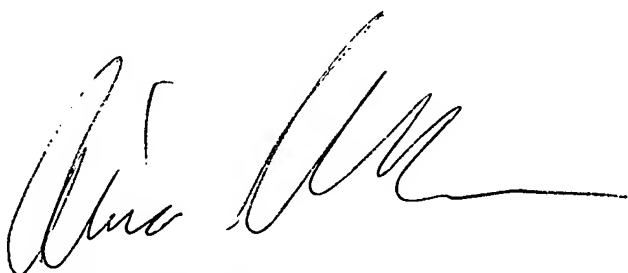
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Chevalier whose telephone number is (571) 272-1490. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ac

5/15/06



**ALICIA CHEVALIER  
PRIMARY EXAMINER**